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Modeling the impact of global warming on vector-borne infections

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Abstract:

Global warming will certainly affect the abundance and distribution of disease vectors. The effect of global warming, however, depends on the complex interaction between the human host population and the causative infectious agent. In this work we review some mathematical models that were proposed to study the impact of the increase in ambient temperature on the spread and gravity of some insect-transmitted diseases.

Source: http://dx.doi.org/10.1016/j.plrev.2011.01.001

Resource Description

Early Warning System:

resource focus on systems used to warn populations of high temperatures, extreme weather, or other elements of climate change to prevent harm to health

A focus of content

Exposure: M

weather or climate related pathway by which climate change affects health

Ecosystem Changes, Temperature

Temperature: Fluctuations

Geographic Feature: M

resource focuses on specific type of geography

None or Unspecified

Geographic Location:

resource focuses on specific location

Global or Unspecified

Health Impact: M

specification of health effect or disease related to climate change exposure

Infectious Disease

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Infectious Disease: Vectorborne Disease

Vectorborne Disease: General Vectorborne

Mitigation/Adaptation: **☑**

mitigation or adaptation strategy is a focus of resource

Adaptation

Model/Methodology: ☑

type of model used or methodology development is a focus of resource

Exposure Change Prediction, Methodology, Outcome Change Prediction

Resource Type:

format or standard characteristic of resource

Review

Timescale: M

time period studied

Time Scale Unspecified

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content